

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number  
**WO 2005/063999 A1**

(51) International Patent Classification<sup>7</sup>: **C12P 7/64**,  
C12M 1/00, 1/04

(21) International Application Number:  
PCT/EP2004/014884

(22) International Filing Date:  
28 December 2004 (28.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03258249.6 30 December 2003 (30.12.2003) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **DEAERATION PROCESS**

(57) Abstract: A process for producing an oil, or a polyunsaturated fatty acid (PUFA), is described where an aqueous liquid comprising cells is deaerated, and the oil or PUFA is obtained from the cells. Deaeration can be performed by a wide variety of techniques, including the application of a vacuum (or reduced pressure), mechanical deaeration or degassing by reduced stirring or subjecting the broth to centrifugal forces, reducing viscosity (by dilution or heating), reduction in the supply of oxygen or air during fermentation or a reduction in stirring rate, lowering the pH (to lower the solubility of CO<sub>2</sub>), filtration using PTFE capillaries, gas displacement (by bubbling in nitrogen or helium) or chemical deaeration (using oxygen scavengers).

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